

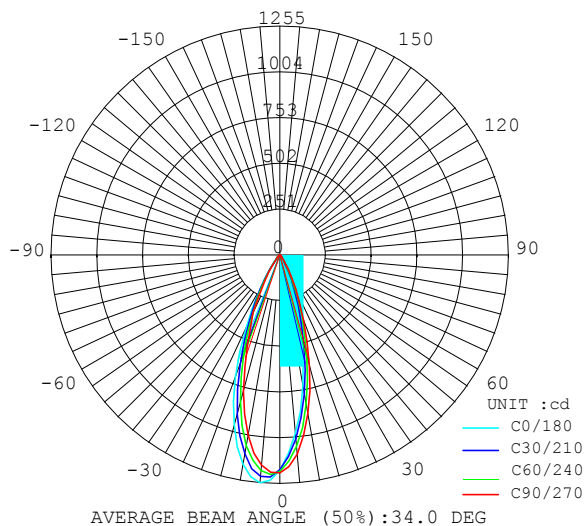
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: RTG002

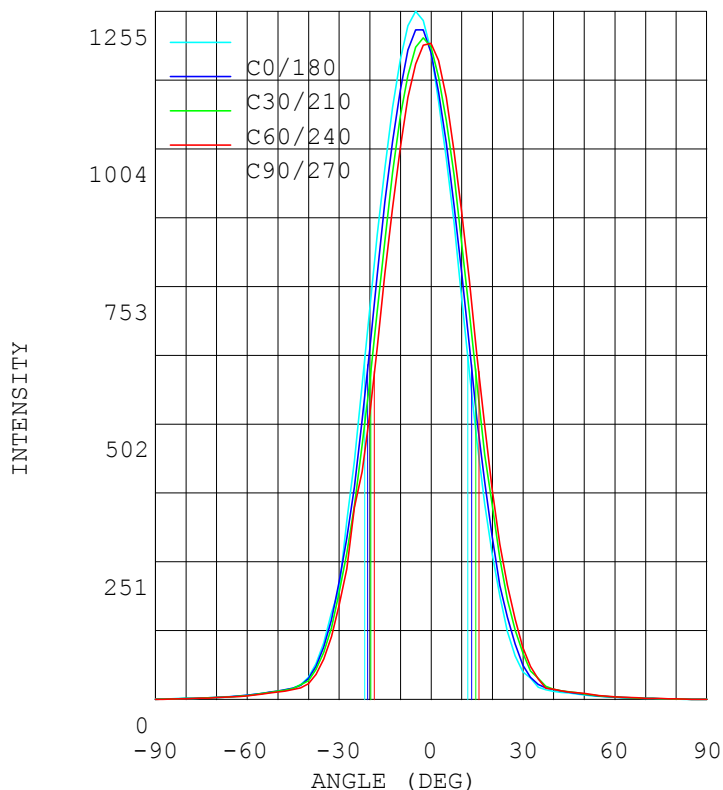
MANUFACTURER: Ultra Max	Address:	
NAME: GU10 230V 5W COB	TYPE: 3000k	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	1255	S/MH (C0/180)	0.68
MODEL	GU10	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.60
NOMINAL POWER(W)	5	TOTAL FLUX(lm)	434.04	Voltage(V)	230.3
RATED VOLTAGE (V)	230	EFFICIENCY(lm/W)	85.1	Current(A)	0.022
NOMINAL FLUX(lm)	434.0	η_{up} (%)	0.4	Power(W)	5.100
LAMPS QUANTITY	1	η_{down} (%)	99.6	Power Factor(PF)	0.470
TEST VOLTAGE (V)	230.3	Effective Flux(lm)	425.6	EEL	0.131

LUMINOUS INTENSITY DISTRIBUTION



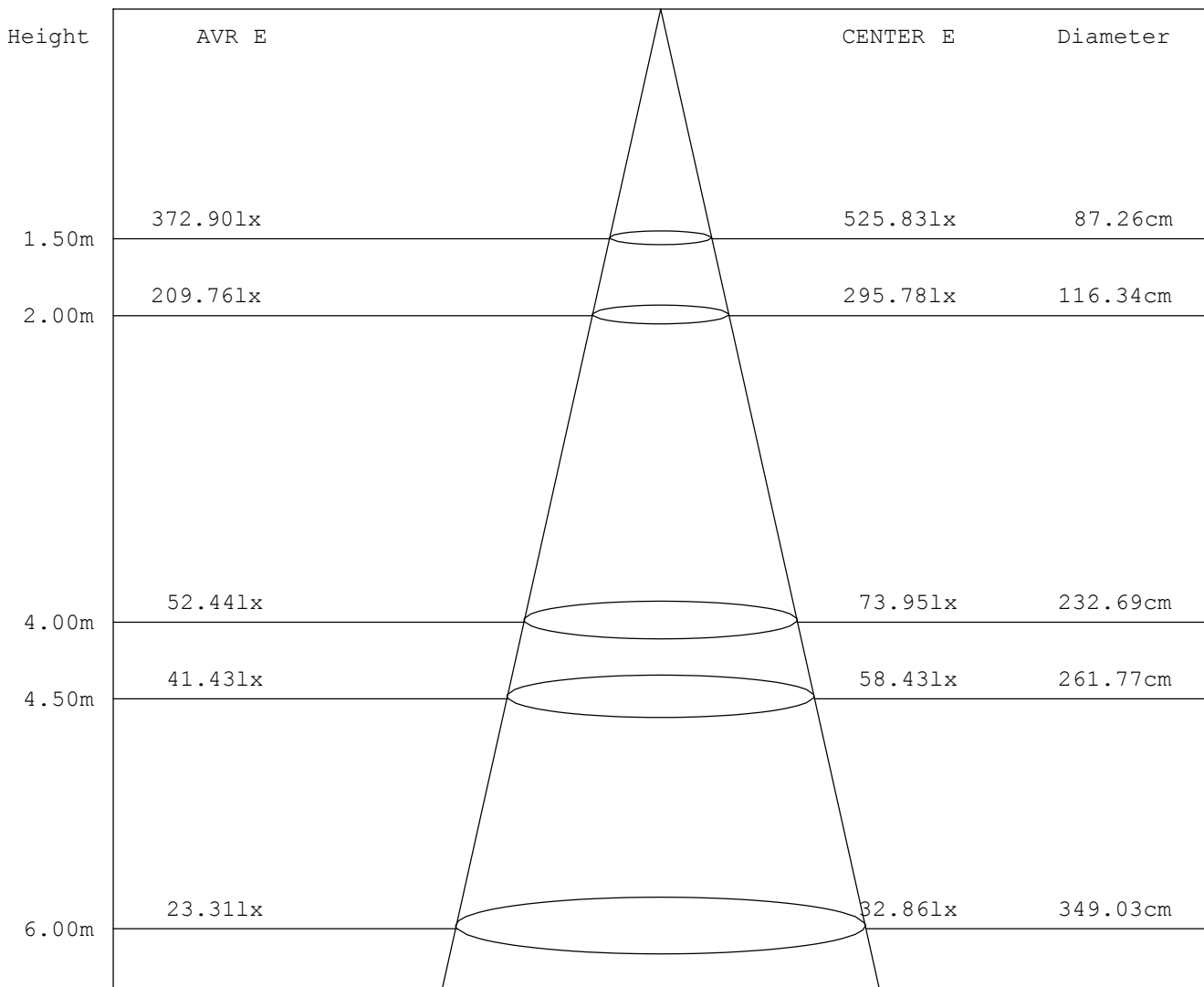
LUMINOUS INTENSITY DISTRIBUTION



AVERAGE AND CENTER E Figure

Report number: RTG002

MANUFACTURER: Ultra Max	Address:	
NAME: GU10 230V 5W COB	TYPE: 3000k	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle: 32.4deg

ZONAL FLUX DIAGRAM

Report number: RTG002

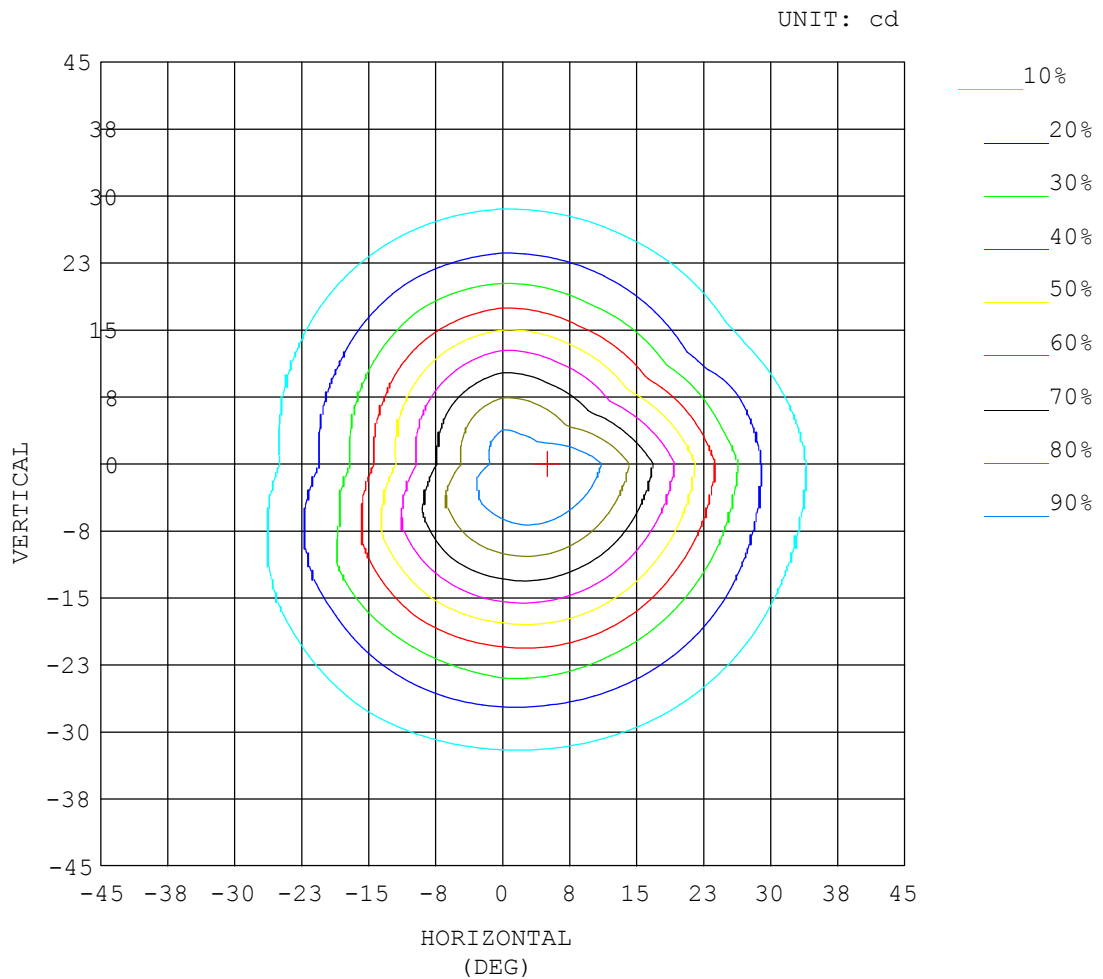
MANUFACTURER: Ultra Max	Address:	
NAME: GU10 230V 5W COB	TYPE: 3000k	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	1255	1205	1159	1109	986.5	1035	1098	1113	0- 5	27.04	27.04
10.0	1167	1087	1006	930.7	731.6	805.0	889.0	915.8	5- 10	70.21	97.25
15.0	967.9	871.4	776.6	691.6	470.3	542.2	626.0	667.7	10- 15	89.68	186.9
20.0	714.7	611.1	522.3	449.2	266.7	327.8	384.7	412.1	15- 20	84.17	271.1
25.0	435.0	370.5	350.1	259.6	124.1	166.4	208.7	206.3	20- 25	63.96	335.0
30.0	200.3	204.6	171.9	131.7	50.41	73.76	94.90	105.6	25- 30	39.95	375.0
35.0	103.5	91.01	73.58	53.93	22.53	33.37	37.91	43.27	30- 35	21.04	396.0
40.0	40.49	36.17	28.66	23.77	14.97	18.31	18.78	20.96	35- 40	10.21	406.3
45.0	20.84	20.35	18.12	16.53	11.77	13.76	13.91	15.18	40- 45	6.569	412.8
50.0	14.56	15.34	13.78	12.92	8.294	9.907	11.19	12.12	45- 50	5.353	418.2
55.0	11.34	11.37	9.971	9.215	5.678	6.596	7.558	8.549	50- 55	4.219	422.4
60.0	8.084	7.700	6.750	6.442	4.120	4.557	5.112	5.815	55- 60	3.104	425.5
65.0	5.520	5.308	4.807	4.623	2.916	3.234	3.588	4.004	60- 65	2.264	427.8
70.0	3.875	3.739	3.533	3.228	2.114	2.255	2.311	2.697	65- 70	1.661	429.4
75.0	2.777	2.665	2.445	2.226	1.492	1.715	1.825	1.912	70- 75	1.215	430.6
80.0	2.049	1.991	1.703	1.551	0.683	0.968	1.213	1.348	75- 80	0.867	431.5
85.0	1.427	1.194	0.806	0.715	0.058	0.287	0.501	0.593	80- 85	0.481	432.0
90.0	0.651	0.493	0.119	0.081	0.036	0.049	0.062	0.069	85- 90	0.164	432.2
95.0	0.070	0.047	0.033	0.049	0.045	0.053	0.060	0.049	90- 95	0.036	432.2
100.0	0.061	0.050	0.040	0.053	0.054	0.059	0.064	0.056	95-100	0.029	432.2
105.0	0.063	0.056	0.048	0.060	0.066	0.068	0.071	0.064	100-105	0.032	432.3
110.0	0.069	0.063	0.059	0.069	0.080	0.080	0.081	0.073	105-110	0.036	432.3
115.0	0.077	0.073	0.074	0.083	0.100	0.097	0.094	0.088	110-115	0.041	432.3
120.0	0.086	0.087	0.092	0.101	0.126	0.120	0.114	0.107	115-120	0.048	432.4
125.0	0.100	0.103	0.117	0.124	0.167	0.152	0.143	0.131	120-125	0.056	432.4
130.0	0.120	0.123	0.149	0.150	0.245	0.209	0.194	0.163	125-130	0.068	432.5
135.0	0.150	0.160	0.209	0.204	0.415	0.336	0.309	0.234	130-135	0.090	432.6
140.0	0.218	0.235	0.351	0.326	0.706	0.534	0.516	0.369	135-140	0.130	432.7
145.0	0.367	0.349	0.545	0.479	0.912	0.663	0.697	0.507	140-145	0.170	432.9
150.0	0.499	0.411	0.626	0.537	0.838	0.629	0.690	0.530	145-150	0.169	433.1
155.0	0.481	0.377	0.533	0.460	0.629	0.533	0.550	0.474	150-155	0.130	433.2
160.0	0.365	0.349	0.391	0.485	1.011	0.828	0.556	0.592	155-160	0.109	433.3
165.0	0.557	0.780	1.070	1.080	2.175	1.923	1.627	1.334	160-165	0.176	433.5
170.0	1.413	1.712	2.120	2.091	3.192	3.052	2.698	2.405	165-170	0.241	433.7
175.0	2.391	2.570	2.930	2.806	3.362	3.350	3.260	3.178	170-175	0.202	433.9
180.0	3.190	3.257	3.236	3.171	3.232	3.255	3.182	3.171	175-180	0.075	434.0
DEG	LUMINOUS Intensity's									UNIT:lm	

ISOCANDELA DIAGRAM

Report number: RTG002

MANUFACTURER: Ultra Max	Address:	
NAME: GU10 230V 5W COB	TYPE: 3000k	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

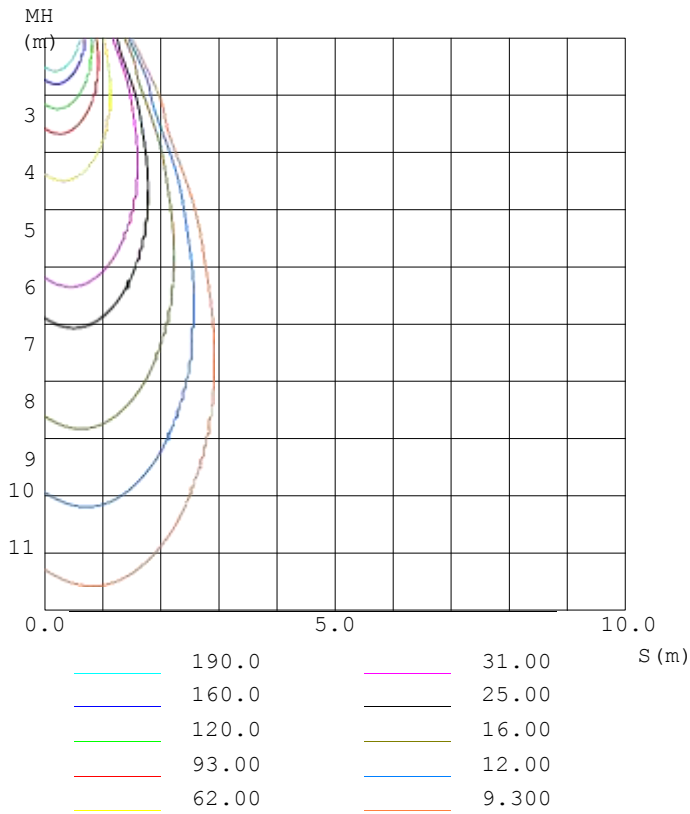


ISOLUX DIAGRAM

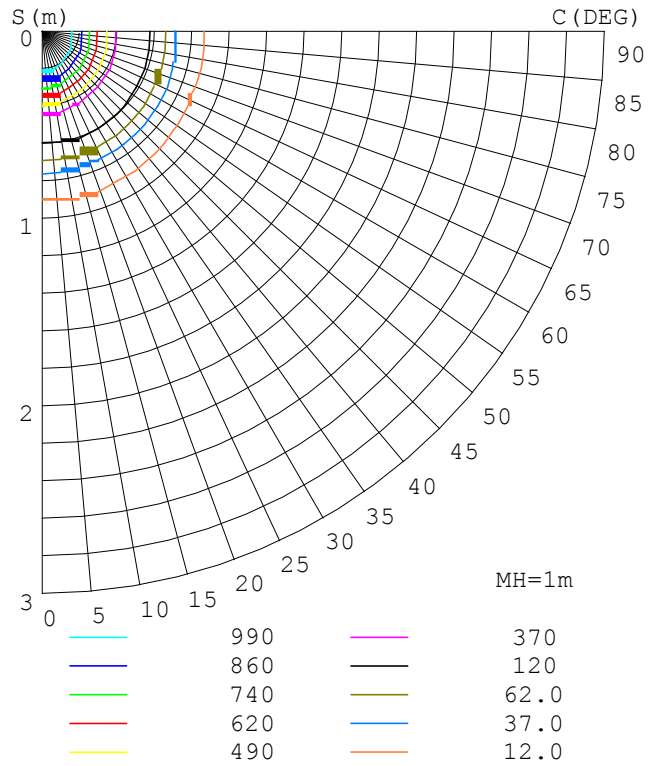
Report number: RTG002

MANUFACTURER: Ultra Max	Address:	
NAME: GU10 230V 5W COB	TYPE: 3000k	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

C0 PLANE ISOLUX DIAGRAM (UNIT :lx)



PLANAR ISOLUX DIAGRAM (UNIT :lx)



LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: RTG002

MANUFACTURER: Ultra Max	Address:	
NAME: GU10 230V 5W COB	TYPE: 3000k	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1183	1180	1190	1197	1187	1182	1183	1180	1190	1197	1187	1182
5.0	1255	1221	1190	1159	1129	1088	987	1015	1055	1098	1102	1123
10.0	1167	1111	1063	1006	963	899	732	778	832	889	895	937
15.0	968	908	835	777	722	661	470	509	575	626	644	691
20.0	715	641	581	522	483	415	267	299	357	385	388	437
25.0	435	388	353	350	286	233	124	150	183	209	210	203
30.0	200	214	195	172	152	111	50.4	62.8	84.6	94.9	101	110
35.0	104	96.0	85.9	73.5	64.5	43.2	22.5	27.8	38.9	37.9	41.1	45.3
40.0	40.4	38.1	34.2	28.6	27.1	20.4	14.9	17.6	18.9	18.7	20.4	21.4
45.0	20.8	20.6	20.0	18.1	18.5	14.5	11.7	13.2	14.3	13.9	15.1	15.2
50.0	14.5	15.2	15.4	13.7	14.4	11.4	8.29	9.46	10.3	11.1	12.0	12.2
55.0	11.3	11.5	11.1	9.97	10.3	8.12	5.67	6.36	6.82	7.55	8.32	8.77
60.0	8.08	7.90	7.49	6.75	7.13	5.75	4.12	4.39	4.71	5.11	5.69	5.93
65.0	5.52	5.39	5.22	4.80	5.08	4.16	2.91	3.19	3.27	3.58	3.88	4.12
70.0	3.87	3.70	3.76	3.53	3.54	2.91	2.11	2.26	2.25	2.31	2.46	2.93
75.0	2.77	2.62	2.70	2.44	2.33	2.12	1.49	1.69	1.73	1.82	1.80	2.01
80.0	2.04	1.96	2.01	1.70	1.72	1.37	0.68	0.93	1.00	1.21	1.21	1.48
85.0	1.42	1.24	1.14	0.81	0.83	0.60	0.06	0.23	0.34	0.50	0.50	0.69
90.0	0.65	0.55	0.44	0.12	0.13	0.04	0.04	0.06	0.04	0.06	0.04	0.10
95.0	0.07	0.03	0.06	0.03	0.06	0.04	0.05	0.06	0.04	0.06	0.04	0.06
100.0	0.06	0.04	0.06	0.04	0.06	0.04	0.05	0.07	0.05	0.06	0.05	0.06
105.0	0.06	0.05	0.06	0.05	0.07	0.05	0.07	0.07	0.06	0.07	0.06	0.07
110.0	0.07	0.05	0.07	0.06	0.07	0.06	0.08	0.09	0.08	0.08	0.07	0.08
115.0	0.08	0.07	0.08	0.07	0.09	0.08	0.10	0.10	0.09	0.09	0.09	0.09
120.0	0.09	0.08	0.09	0.09	0.10	0.10	0.13	0.12	0.12	0.11	0.11	0.10
125.0	0.10	0.10	0.11	0.12	0.12	0.13	0.17	0.15	0.15	0.14	0.14	0.12
130.0	0.12	0.12	0.12	0.15	0.14	0.16	0.25	0.21	0.21	0.19	0.17	0.15
135.0	0.15	0.16	0.16	0.21	0.18	0.23	0.41	0.34	0.33	0.31	0.25	0.22
140.0	0.22	0.24	0.23	0.35	0.27	0.38	0.71	0.54	0.53	0.52	0.38	0.36
145.0	0.37	0.37	0.33	0.55	0.38	0.58	0.91	0.68	0.65	0.70	0.47	0.54
150.0	0.50	0.44	0.38	0.63	0.42	0.65	0.84	0.64	0.62	0.69	0.47	0.59
155.0	0.48	0.42	0.34	0.53	0.37	0.55	0.63	0.56	0.50	0.55	0.44	0.51
160.0	0.37	0.39	0.31	0.39	0.40	0.57	1.01	0.94	0.72	0.56	0.67	0.51
165.0	0.56	0.70	0.86	1.07	0.93	1.22	2.17	1.98	1.86	1.62	1.48	1.18
170.0	1.41	1.54	1.87	2.12	1.96	2.22	3.19	3.14	2.96	2.69	2.58	2.22
175.0	2.39	2.39	2.74	2.93	2.72	2.88	3.36	3.31	3.39	3.26	3.22	3.13
180.0	3.19	3.20	3.31	3.23	3.10	3.23	3.23	3.16	3.34	3.18	3.16	3.18